



x-17294.txt

SEQUENCE LISTING

<110> Karras, James G

<120> Antisense Oligonucleotide Modulation of STAT3 Expression

<130> X-17294

<160> 406

<170> PatentIn Ver. 2.1

<210> 1

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<212> DNA

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x-17294.txt

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X-17294.txt

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| ttgagagtca | agactgggca | tatgcagcca | gcaaagagtc | acatgccacg | ttggtgtttc | 240 |
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| caatggaaat | tgcccggatc | gtggcccgat | gcctgtggga | agagtctcgc | ctcctccaga | 420 |
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| gccacaacaa | taagaaactg | gaggagctgc | agcagaaggt | gtcctacaag | ggcgacccta | 960 |
| tcgtgcagca | ccggcccatg | ctggaggaga | ggatcgtgga | gctgttcaga | aacttaatga | 1020 |
| agagtgcctt | cgtgggtggag | cggcagccct | gcatgcccac | gcacccggac | cggcccttag | 1080 |
| tcatcaagac | tggtgtccag | tttaccacga | aaagtcagggt | gctgggtcaaa | tttcctgagt | 1140 |
| tgaattatca | gcttaaaatt | aaagtgtgca | ttgataaaga | ctctggggat | gttgctgccc | 1200 |
| tcagagggtc | tcggaaattt | aacattctgg | gcacgaacac | aaaagtgatg | aacatggagg | 1260 |
| agtctaacaa | cggcagcctg | tctgcagagt | tcaagcacct | gacccttagg | gagcagagat | 1320 |
| gtgggaatgg | aggccgtgcc | aatttgtgat | cctccttgat | cgtgactgag | gagctgcacc | 1380 |
| tgatcacctt | cgagactgag | gtgtaccacc | aaggcctcaa | gattgacctc | gagaccactt | 1440 |
| ccttgccagt | tgtggtgatc | tccaacatct | gtcagatgcc | aaatgcttgg | gcatcaatcc | 1500 |
| tgtggtataa | catgctgacc | aataacccca | agaacgtgaa | cttcttctac | aagccgccaa | 1560 |
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| actactcagg | gtgtcagatc | acatgggcta | aattctgcaa | agaaaacatg | gctgggcaagg | 1740 |
| gcttctcctt | ctgggtctgg | ctagacaata | tcatcgacct | tgtgaaaaag | tatatcttgg | 1800 |
| ccctttggaa | tgaagggtac | atcatgggtt | tcatcagcaa | ggagcgggag | cgggccatcc | 1860 |
| taagcacaaa | gcccccgggc | accttcctac | tgcgcttcag | cgagagcagc | aaagaaggag | 1920 |
| gggtcacttt | cacttggttg | gaaaaggaca | tcagtggcaa | gacccagatc | cagtctgtag | 1980 |
| agccatacac | caagcgagcg | ctgaacaaca | tgtcaattgc | tgaaatcatc | atgggctata | 2040 |
| agatcatgga | tgcgaccaac | atcctgggtg | ctccacttgt | ctacctctac | cccgaacattc | 2100 |
| ccaaggagga | ggcatttgga | aagtactgta | ggcccagagag | ccaggagcac | cccgaagccg | 2160 |
| acccaggtag | tgctgccccg | tacctgaaga | ccaagtccat | ctgtgtgaca | ccaacgacct | 2220 |
| gcagcaatac | cattgacctg | ccgatgtccc | cccgaccttt | agattcattg | atgcagtgtt | 2280 |
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| gcagagacgt | gacttgagac | acctgccccg | tgtctccacc | ctaagcagcc | gaaccccata | 2460 |
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| atctttgggc | aatctgggca | ctttttaaaa | gagagaaatg | agtgagtgtg | ggtgataaac | 2580 |
| tgttatgtaa | agaggagaga | cctctgagtc | tggggatggg | gctgagagca | gaagggaggc | 2640 |
| aaaggggaac | acctcctgtc | ctgcccgcct | gccctccttt | ttcagcagct | cgggggttgg | 2700 |
| ttgttagaca | agtgccctct | ggtgccccat | gctaacctgt | gccccactct | gtgagctgat | 2760 |
| accccaattct | gggaactcct | ggctctgcac | tttcaacctt | gctaatatcc | acatagaagc | 2820 |
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X-17294.txt

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| cttctgtgcc | caagtcctcg | gctcttccct | cgctgtggcg | gagggaggag | caccgaactg | 180 |
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| gctctctca | ttggtcagtg | ggcggggcct | cggctgtacc | gcacacgcac | tgggacctct | 300 |
| gggtggccga | acgagctggc | ctttcatgaa | ttatgcatga | cggcgtgcct | cggccaggct | 360 |
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| cgcagactgg | gagggggagc | cgggggttcc | gacgtcgcag | ccgaggggaa | aagccccaac | 480 |
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| attgacagac | cgggtactct | tctaaattcc | ctcgcactct | tttctaggtt | aaattatgct | 1260 |
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| tatctttatt | tatatataat | atgtctgtgt | tctctgagtc | agcacattta | tttccttatt | 1980 |
| acatgttcca | gacaggagtg | ctagcccagt | ttttgttcag | tttgcacagt | gggatgggga | 2040 |
| aacaagtctg | gaatttaaaa | aaaaatgttt | tagagggttg | agccttgatt | ttagtctcta | 2100 |
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X-17294.txt

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| actgtttttg | gtcagcataa | tttaccatca | gaatttagct | atttactaat | gaaaagaaat | 3120 |
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| gtgcattgtg | gcttgatcag | ttgtcatttc | tgctcttaga | aagtgtcttt | aacttctctg | 3240 |
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| agacgcctga | gtccaaacct | tcttagctta | tggttttctt | agggtgatgtg | caaataca | 3360 |
| aatatatact | tttttttttt | tttttttgag | ttggagttgc | actctatcac | ccaggcttga | 3420 |
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| ctggagttgt | ctagaaagtc | tttttgccaa | agagggattt | caactgggtc | ccaaataatg | 4020 |
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| gggaggctga | ggcaggagga | ttgcttgagc | ccaggagttt | gagaccagct | tgggcaacgt | 4140 |
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| ctccgtctca | aaaaaaaaaa | aaataaataa | ataaataaat | aaataaaact | ttggagccga | 4800 |
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| aactggagtc | tgacattgta | caaaggtagg | tatcctgact | agtttgattt | ggtacttttg | 4980 |
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| caaaccacca | ctcatatttt | atgtccttgg | cacttaaaaa | tttcaccata | acttttgagt | 5100 |
| cattttataa | aaccactgaa | agagtacttg | agggacatcc | ccgaatcctg | aagaacttct | 5160 |
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| ggcttacaag | acgtaagcgt | aaagtgtagt | gcgcttttagt | cagtatggcc | acatggtcct | 5340 |
| ttggtggtaa | attgtttgag | atgcctccag | tttttaaaa | gagtagcata | tcggggccagg | 5400 |
| agcagtggct | catgcctata | atcccagcac | tttgggaaggc | cgaggcaaga | ggattgcttg | 5460 |
| agcccaggag | ttcaagacca | gcctgggcaa | catagtgaga | ccactttggt | tctttaaaaa | 5520 |
| aaaaaaaaaag | gcaaaaaacag | gctgggcatg | gtggctgatg | cctgtaatcc | cagcgctttg | 5580 |
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| agaaaaaaaa | aaggattacc | gcaactcttt | aattcagatc | agcaaacatg | ttgagagcca | 6300 |
| ggtattgcgt | caggcaggat | ccaaggataa | tgaatatattg | tccgttttca | tgaaacttga | 6360 |
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X-17294.txt

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| ataacagtg | ttatcttgta | ggtagctgtg | acgattcaat | aagataatgt | ggataaaatg | 6600 |
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| caagaaaaga | gattaattct | tttcaggagt | gagagaaagt | catcattatt | gaggggcttt | 6720 |
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X-17294.txt

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| ctacagacga | ttctgggtaaa | gaatagcctt | taagttttta | aagtgttgac | ttatttcaga | 13920 |
| tgtcttaata | aagttaaact | ccagttatta | catgtaacgt | atataaagct | ctcattttcc | 13980 |
| tttattctcg | ttaattgttt | gcataacaaa | ttcaaaggga | aatttgcttg | gcagagatca | 14040 |
| gatagcagag | atgagattta | aaaacaggta | atttggtctc | tagcctggga | gtttgaagat | 14100 |
| tccaagtgtg | catccatttg | tagtcactta | acatttctgt | ccttatctgt | aaatgggaat | 14160 |
| aacacctact | tgatagggtt | gttacattat | cttggccacc | tcaggttctc | tttggctgag | 14220 |
| tgattgactg | gaaaacgcaa | tgtgaattca | tgcttcagac | tgggttcttt | tttttttttt | 14280 |
| tttttgagat | ggagtttcac | tcttattggc | caggctggag | tgcaatggca | cgatctcagc | 14340 |
| tcactgcaac | ctctgcctcc | caggttcaag | cgattctctt | gcctcaggct | cccagtagtc | 14400 |
| tgggattaca | ggcatgcacc | accatgcctg | gctaattttt | ttgtattttt | agtagagacg | 14460 |
| gggtttcact | gtgttggtca | gactgggttc | aaactcctga | cctcagggtga | tccacctgct | 14520 |
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X-17294.txt

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| atgtttcttt | ctagattctc | tctaagcgtg | tattctcttt | ctttcctagg | cacagccacc | 14700 |
| acttcactta | cattgtggga | ttataatttc | atgagtagtg | gaatttcctt | aaccttctct | 14760 |
| tgtgtgggag | ctgaaggaca | aaatgagata | ttctctgaag | agtgggtaca | tcatgcaaaa | 14820 |
| ctatgatgtg | taatgaggtc | acttagtttt | ctaagtacat | tatacatatt | gataagattt | 14880 |
| tcatagaaaa | gcttgtctcc | ttggggagat | cactcatctt | ccatcttgac | tattatttaa | 14940 |
| actttatggg | tcagatttat | ctttttaaaa | acttaaccat | aaagctcaat | taattttttt | 15000 |
| tttttttttt | tgagacggag | tctcgctctg | ttgcccaggc | tggagtgtag | tggcgcgatc | 15060 |
| tcggctcact | gcaagctctg | cctcccagggt | tcatgccatt | ctcctgcctc | agcctcctga | 15120 |
| ctagatggga | ctacaggcgc | ccgccacgat | gccccgcta | ttttttgtat | tttttagtaga | 15180 |
| gacgggggtt | caccgtgtta | ggatgggtct | gatctcctga | cctcgtgatc | cacccgcctc | 15240 |
| ggcctcccaa | agtgtctggga | ttacaagcgt | gagccaccgc | gccccggtca | attaatatat | 15300 |
| tttaaaaatt | aatagacttt | attattttta | ttttatttta | tttttgaggc | agagtctcgc | 15360 |
| tctgtcacc | aggctgagtg | cagtgggtgtg | atcttggtct | actgcaaact | ccacctcccg | 15420 |
| ggctcaagtg | atttctcctgc | ctcagccttc | taagttagta | ggattacagg | tgctgtccac | 15480 |
| cataccgggc | tagtttttgt | aatttttagt | gatacgtgtt | ttctttcttt | ttttttcttt | 15540 |
| tttttgagat | ggagtttcac | tctttttgcc | caggctggag | tgcaatggca | tgatctcggc | 15600 |
| tcactgcaac | ctccgcctcc | caggttcaag | tgattctcct | gcctcagcct | cccaagtagc | 15660 |
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| ggtttccacta | tgtagccag | gatgtctcga | tctcttgacc | tcgtgatccg | cctgccttgg | 15780 |
| cctcccaaag | tgtctgggatt | acaggcgtga | gccactgcgg | ccagtctaga | ctttattttt | 15840 |
| taaagcagtg | ttagttttac | agaaaaatta | tgtggaaagt | acagagagtt | tccatatacc | 15900 |
| ccttactttc | tcccacaact | tctattatta | acatcttgca | ttagtatagt | acgtccctta | 15960 |
| caactaatga | accaactcga | tacattatta | ttaaccaaat | tcctgagttt | attttatttc | 16020 |
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| ggttgcagtg | gcatcatcat | agcttgctat | agcctgaaac | tcctgggctc | aagcaatcct | 16140 |
| cctgcctcag | tctcccaaag | tgttggaatt | acagggtgtga | gccactctgt | ccagcctgaa | 16200 |
| gtccatagtt | tacattacat | ttcactctgt | tgagcattct | atggattttg | acaaatgtgt | 16260 |
| gatgatgtat | atttgccagt | acacaattat | ataaaatagt | tttactgccc | tagaaacccc | 16320 |
| ctgtgctcca | cctattcatt | cctctgctga | accactggca | accactgatc | ttttataata | 16380 |
| tctccatagt | tttgtctttt | ccagaatgtc | atatagttgg | acatacagtg | tgtagccttt | 16440 |
| tcagattggc | ttcttttcagt | aaatgatatg | catttccaggt | ttcttcatgt | ttttttgtgg | 16500 |
| cttgataggt | tgtttctttt | cattgggtgag | taatactcta | ttgtatggat | ataccacatg | 16560 |
| ttgtttatca | aacattcacc | tgaaggatag | acatcttggg | tgcttccaag | tttgagcagt | 16620 |
| tatgaataaa | gctgtctata | acattccagt | gcaggacttt | tcacctctc | tgataaata | 16680 |
| tcaaggagtg | caattgctag | atcatatggt | aagagtatgt | ttagttttgt | aagaagctat | 16740 |
| caaactatat | tcaaagtga | tgtaccatta | tacattccca | tcagcagtg | gtgagagttc | 16800 |
| ctgttactcc | acatcttcac | cagcatttag | tgggtcaggt | gttttgagatt | ttagccattt | 16860 |
| taatgggtgt | ataatggat | acctattaaa | attgggtttt | tttggagaca | gagtttcaca | 16920 |
| gtttcactct | tgttgccctg | gctggagtg | aatggcgcaa | tctcggtc | ctgcagcctc | 16980 |
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| gcacgccacc | atgttcttgt | aatttttttg | tatttttagta | gagatgggg | ttcactgtgt | 17100 |
| taccaggct | ggctctgaac | tcctgagctc | aggtaatcca | cctgcctcag | cttcccaaag | 17160 |
| tgttaggatt | acaggcatga | gccaccgcac | ctggcctcaa | tttttttttt | tttttttttg | 17220 |
| agacagagtt | ttgtcctgt | tgaccaggct | ggagtgcagt | ggcacaatct | cggtcactg | 17280 |
| caacctccgc | ctcctgagtt | caagcgattc | tcctggccaca | gcctcctgag | tagctgggag | 17340 |
| tataggcgcc | cgccactacg | cctggctaatt | tttttttttt | tttttaatta | gagacgaggt | 17400 |
| ttctccatgt | tggtcaggct | ggctctgaac | tccccgttct | caggtagatc | gcctgcctca | 17460 |
| gcctcccaaa | gtgctgagat | tacagggtgtg | agccaccgtg | ccccgcctgt | tttggtttt | 17520 |
| actgtgaaga | cgtgttagcc | gctgtgatga | ctagcaagtg | tggccctcca | cccagtcgct | 17580 |
| ctgggctccc | agctcctgca | tcctgctgca | aacttgacat | cttccctcaa | gtaacttcta | 17640 |
| gttgtctcct | gtctacttgc | ccaaaatata | actcttaaac | ttttctctct | gcaagtttgt | 17700 |
| gcctctctcc | ctgtctgact | tccccatcta | aataaatggt | agaccaccat | ctactccttt | 17760 |
| gtgcaagcca | gaaatctagg | aatcatcctt | aaattccctg | ttctgtctta | tctctgcttt | 17820 |
| cattcaaagc | atcagcaaat | cctgttggtt | ctacctctga | agttttctca | aatactgtta | 17880 |
| cttgactcat | cctgactttt | gtttctgctt | tatgttaggc | taaatgccct | gaaaactctt | 17940 |
| ttgtacaaaa | cacctagaaa | tactggataa | actgggctta | acagggaggc | ccggtgtggt | 18000 |
| ggctcacgcc | tgtaatccca | gaactttggg | aggccaaggt | gggtggatca | cctgaggtca | 18060 |
| ggagtccag | accagcctgg | ccaatacgt | gtgaaacccc | accttacta | aaaaaaaaaa | 18120 |
| aaaaaattag | ctgggtgttg | tggtgcacac | ctgtaggtgg | tgcatgcttg | aacttgggag | 18180 |
| gcggaggttg | cagcgagctg | agatcgcgcc | actgcacttc | agcctgggtg | acagagcagg | 18240 |
| attctgtctc | ttaaaaaaaa | aaacaaaaaa | agaaaaacag | gaaaaatctc | agaagcaaaa | 18300 |
| accaaacaat | ctcaccaaag | aaatgagaag | atggctgggc | gcggtggctc | acgcctgtaa | 18360 |
| ttccagcact | ttgggaggcc | gaggcgggca | gatcacccga | gatgggcaga | tcaccggagg | 18420 |
| tcaggaattc | gagaccagcc | tggccaatat | ggtgaaaccc | cgtctctgct | aaaaatacaa | 18480 |
| aaattagcca | gggtgtgggtg | caggcgccctg | taatcccagc | tactcaggag | gctgaggcag | 18540 |
| gagaatcgct | tgaacctggg | aggcgagggt | tgcagtga | cgagatcatg | ccactgtact | 18600 |
| ctagcctgga | cgacagagca | agactctgtc | tcaaaaaaaa | aaaaggctgg | gtgtggtggc | 18660 |

X-17294.txt

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| gaacatggcg | aaaccccatc | tctactaaaa | atactaaagt | tagctgggca | tggtgggtggg | 18780 |
| tgcttgaat | cccagctact | cgggaggcgga | ggcaggagaa | tcgcttgaac | caggaggtgg | 18840 |
| aggttacagt | gaaccgagat | ctcggccaccg | cactctagtc | tgggcgacag | agcaagactc | 18900 |
| cgtctcaaaa | aacaacaaca | aaaaaccaac | acatggccaa | agtgcagtga | cttacatctg | 18960 |
| tataatccca | atgttttggg | aggctgaggc | aggaggatcg | cttgagtcca | ggaatttgag | 19020 |
| accagcctgg | gcaacataga | cctcatcacc | aaaaaaaaaa | tattttttaa | ttagctgggt | 19080 |
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| gcccaggagt | ttgatagtgc | gagggttatag | tgagctatga | tcctgcccact | gcaactccagc | 19200 |
| ctggggccaca | gagtgagacc | ctgtctctta | gaaacaaaaa | aaaacaaaaa | aaagaaaactg | 19260 |
| aattaaaaaac | aacaagaaca | aaaatgctgc | tttttggttat | tgagttgtag | cccaagtttc | 19320 |
| ttgagggttaa | agcattgaaa | agcaggcagt | aatagatttg | ctgtttaaag | agatttactt | 19380 |
| gcagcactat | tcacaatagc | aaagacatgg | aatcaacctt | aatgcccata | agtgcacaaat | 19440 |
| tggtataaaga | aaatgtggta | catacactgt | ggaatactat | gcagccataa | aaaacacaga | 19500 |
| gatcatgttt | ttgtttgttt | gtttgtttgt | ttgtttttga | gatggagtct | tgctctattg | 19560 |
| cccaggctgg | aatgcagggtg | gcacgatttc | agctcactgc | aacctccgcc | tcccagggttc | 19620 |
| aagcaattct | ctgcctcagc | ctcccagagta | gctgggatta | cagggtgccct | ccaccatgcc | 19680 |
| tggtctaattt | ttgtatttct | agtagagatg | gggtttcacc | gtgttgggca | ggctgttctt | 19740 |
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| gccaccgtgc | tcggctgaga | tcattgtttt | gcaggaacat | ggatggagct | ggaggctatt | 19860 |
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| gggagctaaa | tgataaggac | ttgtgaacac | aaagaaggaa | accacagata | ctgggggttta | 19980 |
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| cttaataactt | aaatatttat | caaaataaag | tgtacaacaa | acccctctga | catgagttaa | 20100 |
| cctatataac | aaacttgcac | gtgtaacccc | aaacctaaaa | taaaagttaa | aaaaaaaaaaa | 20160 |
| aaaggctgggt | tgcatattgga | ggctgaggca | ggcagagcac | ttgaggccag | gaattcgaga | 20220 |
| ccagcttggc | taacgtggag | aaaccctgtc | tctactaaaa | attcaaaaaa | tagccagggtg | 20280 |
| tggtgggtgca | tgccctgcagt | cccagctacc | agggaggctg | aggcaggaga | attgcttgaa | 20340 |
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| agggcgagac | cttgtctcaa | aaaacaaaaa | aaaacaaaac | aaaaacctgt | cactttggga | 20460 |
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| gttttttagcc | tcaacatgtg | cagggaatgga | gttgtcactt | gctagaatgg | gggagactgg | 22680 |
| aggagaagcc | ggctggggaga | ggtttttaat | gaagggggtg | gctttggata | cattaagttt | 22740 |

X-17294.txt

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| ttgttttgaa | agaaagtggg | gctgaataat | ttagaaagga | gtgcatagag | aaaataagtt | 22920 |
| tactattaaa | atagctttaa | caggccgggc | acggtggctc | atgcctgtaa | tcccagcact | 22980 |
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| ggtgaaaccc | tgtctctact | gaaaatacaa | aaattagcca | ggcgttgtag | cgggcacctg | 23100 |
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| atcactatgt | tagtaaaaat | gttgttctag | ttgccgaatg | caataaacca | gctcagactt | 23400 |
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| aatgagagaa | tttagggcca | tgttatccaa | ccaccacaaa | tgccttctga | atttgaggtt | 23880 |
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| gccccaggta | tattgttcca | tgtaatgac | caggactacc | ttagtatttc | gtatagggaa | 24000 |
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| cattgagcca | tattataggt | ttatgacttt | gagactcaga | aattttaaatt | cttggccagg | 24120 |
| cgcagtggct | cacgcctgta | accccaacac | tttgggaggc | caaggcaggc | agatcacttg | 24180 |
| aggtcaggag | tttgagacca | acctggccaa | aatggtgaaa | ctccatctct | acgaaaaata | 24240 |
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| acagtttatt | agaaaaatac | tttgcttctc | tccaaactcg | aaattcaaga | taaccaaacc | 24660 |
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| gtgtgtgcaa | gtgtttatit | ggtgtcttaa | gttagcctgt | gggaagttct | aaatcaggat | 24840 |
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| aggaaagagc | ctcagatgct | tatatatgta | ccgtggggat | tcagagtga | agcagtcatt | 24960 |
| ggactagggg | tggggtttag | gagagcctgt | ctgacagaca | caagaaaggg | atggataacg | 25020 |
| ccaccagag | aaaaaagcat | tttaggcag | aacaaatatg | aaaaagggaac | aaagtctgtg | 25080 |
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| tggaggctgg | gtgccatggc | tcatgcctac | aatcgagca | ctttgggagg | ccgaggtagg | 25200 |
| aggacaactt | gagcccagga | gttcgagacc | atcctgggca | acatgggtgag | actgagctct | 25260 |
| taccaaaaaa | aaaaaattatc | gaaaattatc | cagacatggt | ggcatgtgcc | tgtaatccca | 25320 |
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| gctgtgatcg | tattattgca | ctccagcctg | ggtaacagag | caagaccctg | tctcaaaaaa | 25440 |
| tgaagtcatt | ctgtaggctg | gagagaggaa | ctggaagggg | ctaaagttag | ctgagttagt | 25500 |
| acagagcctg | agataagggt | aaagattttg | cattggacaa | tgagatgtta | gtgtgtgttt | 25560 |
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| aatcagtgat | tcttgatcat | tcttgaattt | ttcaaacagc | aaaactggaa | gagttggcct | 25680 |
| attcctcaga | atattttcta | attgggcgca | gtgtcctcac | ttgggagaac | ctggctacac | 25740 |
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| ttatggacca | gacactatgc | tggatgccag | ggttcagggt | aggacacgct | agtgaacaaa | 25860 |
| agccaagact | cttcttgtct | tcatggggct | ttcagtccag | catagtgggt | atgagtccaa | 25920 |
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| aggatgctcg | tcatgtcagt | aatgagtaca | aacacttaca | tgctgcacgc | tattgggctc | 26160 |
| ctgagtgtca | cgtgttcatt | agctcgatga | atttgtacag | caaccctgtg | aggtaagcac | 26220 |
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| ccagctacac | gctaagtgat | cgaagtgggt | gaaccaggat | tcaaattccat | gctattctctg | 26340 |
| cttaagataa | caaatcttgt | tttttagcct | aagaacagag | cagtcatcag | gagggtttta | 26400 |
| agtaggggtg | tggcaagatc | aagtttgtgt | cttgaaaagg | tctctctacc | cacagtgtgg | 26460 |
| aaaatggcct | ggaggcaagc | acacagatgt | tgggagacag | ttaacagctc | ttgccatggc | 26520 |
| cccctatgca | ttttggctct | gatgtttctg | cctgattttt | ctcttgccctc | tgcctctttt | 26580 |
| cctgagggga | tggcaggttt | taccattcag | ctggagtaca | aaccctgaac | ccttttttgt | 26640 |
| taaatactca | cttgcctttt | ctacagtatt | atttttagtt | gctgtggctg | taatgtcttg | 26700 |
| agggaaatcga | gcttgacagt | aatttataga | acaaacagtt | tttagagact | gtgtggccca | 26760 |
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X-17294.txt

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| cagaagatgg | atgtctgcct | caaaacactt | acaatgctgc | tacctaaatt | gggcagccac | 27000 |
| gacctccac | caggattatt | gcagcctgag | ggatcttttt | gaaatgtaaa | tcaaactatc | 27060 |
| acttgtctgt | ttaaagcttt | tcaaagactt | accccatgtc | ccttggaaga | aagtgcagat | 27120 |
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| tacagtgtac | tgcttcatta | gaaccctgga | gattattatt | tgctagtctt | gggctaagaa | 27240 |
| ctggcacctg | gctttgtaga | gctcctcagg | agattctgag | gcgtattcag | agttgagccc | 27300 |
| tgatctctgc | tctgatttcg | aggttctcgt | tatattttatt | aatgatcacg | aaaaaattta | 27360 |
| ttattattct | ttggcctcac | tttagcatca | tctgaggaat | tttttttttt | ttttgacaga | 27420 |
| gttttgcctt | gtttgcccag | gctggagtg | aatggcgtga | tctcagctca | ctgcaacctc | 27480 |
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| atccaccacc | atgcctgcta | atgtttttgt | attttttagt | agagggtggc | tttcacagt | 27600 |
| ttggctcagg | tggttttgaa | ctcctgacgt | cagctgatcc | acccacctag | gccccccaga | 27660 |
| gtgctgggat | tacaggtgtg | agccaccgtg | cccagccgta | gctttcgaaa | tttgaacctc | 27720 |
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| gtatatattt | tttagtgtca | gccagggtgg | agacctctgt | attacttcat | ggggaagaat | 27840 |
| ttggggagaag | atgttgtgag | gagacagggt | ctagtcctag | agtgatttat | cctttctcgt | 27900 |
| acagatttcc | aggattttga | ggggccactc | ttctgtaatt | catgtttttc | tctcctaacc | 27960 |
| tcactcctgt | tgcttgcata | ttcttgctga | gcaaaatatt | caaggtcttc | aactcctcac | 28020 |
| acactgtgtg | tccctccctg | gatgtgtttg | gttgttttag | tgttccattt | caattttgat | 28080 |
| acacagaatt | agaatagcat | ccagatgtgg | gtctgttaca | gctagactac | tagatccttc | 28140 |
| aaaatccaag | tactagtatg | tctattaaaa | taccataaga | tcacattggc | tagttacaat | 28200 |
| gggtggtttg | tggtgttact | aaaaatcaac | taaaattcct | tttttttttt | tgagatggag | 28260 |
| ttttgtctct | gttgcttagg | ctggaatgca | atgacacaat | cttggctcac | tgccacctct | 28320 |
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| ggatcgcttg | agcctaggag | ttcgagacca | gcctgggcaa | gatggccaga | cgccatctct | 28680 |
| aatttaaaaa | aaagaaaaaa | caagactcct | atagtggtga | agaacagaca | ttccgaaaaa | 28740 |
| agactgtgcg | ttatgattcc | agctccatgc | ctttactacc | tggtgtgtga | ctttggataa | 28800 |
| atcacttaaa | aatctttttt | tttttttttt | ttttttgaga | cggagtcttg | ctctgccgcc | 28860 |
| caggctggag | tgtagtgccg | cgatctcggc | tcactgcaag | ctctgcctcc | cagggttcaca | 28920 |
| ccattctcct | gcctcagcct | cccaagtagc | tgggactgca | ggtgcccgcc | actacacctg | 28980 |
| gctaattttt | tgtattttta | gtagagacgg | ggtttcaccg | tgtagccag | gatggtctcg | 29040 |
| atctcctgtc | ctcgtgatcc | acccgcctca | gcctctcaaa | gtgttgggat | tacaggcggt | 29100 |
| agccaccgca | cccggccaaa | tcacttaaaa | tctgtgcct | cagtttctcc | tctgtaaagt | 29160 |
| gggataaaaa | tagtacctat | ctgatagggt | tgttacaatt | atgaaatgag | caaataagta | 29220 |
| tgtcaagtgt | ttaaaacagc | gcctggcttc | ttgtaaaaag | tgctatataa | atcatagcta | 29280 |
| taatcattac | ttatttccag | tgctctttaa | ccaaggttct | tatttttcat | ctttttcttt | 29340 |
| tggtttgaat | atcacttagt | gttttctctt | ttttactctt | ttaggacctc | gagccatcct | 29400 |
| agggtgaaata | cgtatggaga | tatttgatca | ggtcaccacc | cagctctcct | gacctccctt | 29460 |
| ctctccttaa | attaacatgc | caaatcacag | catcactgac | tccttccctc | ccgatatgat | 29520 |
| aagagtgtgc | attgaaatgc | atgtatttta | cttagcaggg | aaagctgatt | agtgattatc | 29580 |
| acacttaacc | cctagtgaat | ctgatggatt | aacctgcttt | ccaggacact | aaggaaatgg | 29640 |
| gtttaagata | agaaatatct | ggctgggtgc | aggtgcttta | cgctgtaat | cccagcactt | 29700 |
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| atgaaacccc | ctctttacta | aaaatacaaa | aaattagccg | ggtgtgggtg | cgggcgccctg | 29820 |
| gagtcaccag | tactcgggag | gctgaggcaa | gagaatgggt | tgaacccagg | aggcagagct | 29880 |
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| ctcaaaaaaa | aaaaaaaaaa | aagtaagaaa | tgtccatgaa | agggagaccc | tggggggaaag | 30000 |
| gaacaataac | tgtagctctg | aggatctggc | accagcagca | ccagcacaga | gggatgctgt | 30060 |
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| tactgaagag | aaagcccat | tggtagtga | ataccatttc | caaagacaaa | tagctaataa | 30180 |
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| cacaccacac | tgatacagag | gaatgtgtct | ggttggggaa | gtggaagtgt | tcccaagtgg | 30300 |
| ggaggtcatc | tgatgcacaa | atttgggtctg | ttttgtgggt | tttcttggtt | tagttttagt | 30360 |
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| cttcttttaga | tggtgggtct | agctctgtca | cccaggctgg | agcgagtggt | tatgatcaca | 30540 |
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| cggtgttgcc | caggctgggt | ttgaactcct | gagctcaagc | aatccctctt | ccaccttggc | 30720 |
| ctctcaaaagt | gctagaatta | taggcattgag | ccaccatgcc | tgccctttac | ttcttttata | 30780 |
| tattcaaatt | ttgtcatatt | agtagggaac | tataactcaa | gttttcttat | agattgatgt | 30840 |
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X-17294.txt

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| gtcttaaata | ttacaaaggt | actatttgga | cttaaaacta | tgaaattgtg | tgcttactat | 31080 |
| ataagtgtac | ttattttgag | ttatgtttta | aacttgaaat | tccattctta | atgtctagag | 31140 |
| taattatgaa | tggttaaatt | atgaatgact | ctaatagttt | aaagctacag | tattttattn | 31200 |
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X-17294.txt

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| ccactgtgtc | cggccctagt | gaggaatttt | aagcagaaaa | ctgatatgct | cagggtgtgag | 46740 |
| cgaggtggtg | ggtaacactt | actgtgcagt | gccctgtagc | ccaagagggt | agcacacagg | 46800 |
| catttgctca | ggcagcacta | ggattttctg | ctgtggaaaa | cctttgtatt | ttatcctgct | 46860 |
| ccacaagata | aaaataagtg | gtttaagtca | atttgatag | aggctccaac | ttaccatggg | 46920 |
| aggtaggaaa | gccaaagtta | tcccaaggat | gttttcaatc | gtacggatta | ggggtctgca | 46980 |
| aactgtgagc | gtggcccaaa | tccagcctgc | tgcttgtttt | tgtaaatgag | gttttttctg | 47040 |
| aacccagcca | cactcattta | tttatgcatt | atctgtggct | gctttgggtg | tgtagtgcca | 47100 |
| gggctatttg | tggcagggac | tgtatgacct | aggaaccaa | aaataatttac | cctctgtccc | 47160 |
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X-17294.txt

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| attggttaaa | gatagaagag | tggatgtaat | ccctgctacc | aagggctgtc | aggctagtgtg | 47340 |
| ggattataag | tacacaaaca | ctcaaaagtga | gaaaaacaca | gaaaaggatg | tgtgtcattt | 47400 |
| tgtctaagga | agttgaataa | gatttctcag | gaaaagaaac | atttgaactg | aatttgaagg | 47460 |
| tgagtgaagt | caggtgtgtt | tgggctgaag | cccaggccat | gctgagtggg | tagcgggtgg | 47520 |
| gaagagagtg | tggaaacaca | ctgcatgcag | ggaagagttg | ggagtctggg | gtgaccaagg | 47580 |
| cacagggagg | gaaagttgaa | gttatcaatt | gtgtgaaaca | gctttctgtg | ttggcctgag | 47640 |
| atgtttatag | ctggaagcag | tggggagcca | atacagtttt | ttacgaaggt | attagaggtg | 47700 |
| ggtttctgtg | ggtgatcggt | aatcatgttt | tctcccttta | agtgtagtcc | tgcttgagaa | 47760 |
| atagacatga | gaaaggaatg | aaggttaaaa | catcagctgt | attgttggtg | aaactagaat | 47820 |
| ggaaagtgtg | gcttgagctg | gtaaccatag | gggctttcca | atgcctgtgc | cctgagttag | 47880 |
| atccttgggt | agagagactg | gatgtgcaga | gcagcacccc | caccccaccc | cagccatcca | 47940 |
| tatggagctt | cagctgccat | agaccaacaa | ggcagaggga | taggcctcta | gacctgcttc | 48000 |
| tagaaaccag | gctgtgtctc | ttgcttatgg | tgggcccctag | gaaggcaaga | gtgagaggag | 48060 |
| ggaggcacca | gcttaggtgc | tgggttcttt | gaagatctgt | gtgtacacag | agtctttctc | 48120 |
| tccattttac | caatcagatg | agtcactgtc | actgtgggaa | gaagtagggg | catgggtcac | 48180 |
| cttcccaaaa | cttctaagaa | gtttgtattc | tgtgggcttg | gatagggacc | atgggaaagg | 48240 |
| aagagaatgg | ttgcccataa | aactggctgt | agtgtggcct | caaacttctg | gacttaaatg | 48300 |
| atcctccccc | ctcagcctcc | caagtagcta | gaactacagg | tatatgccac | catgcccagc | 48360 |
| tagttaaaaa | aaaatttttt | tttttttttg | gttgagatga | ggctcttttc | tatgttccct | 48420 |
| gggcccgtct | caaactccca | gcctcaagtg | atctctctgc | cttggtttcc | caaagtgtca | 48480 |
| ggattatagg | tgggagctac | catgcctagc | ccaagcctgt | aatttttttt | tttttttttt | 48540 |
| gagatggagt | ttcacttttg | ttgctcaggc | tggagtgcac | ggcgagctct | tggctcacca | 48600 |
| caacctccac | ctcccggtt | caggcgattc | tccttctcta | gcctcccag | tagctgggat | 48660 |
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| ttcatatgct | atttattttt | tgttatttct | tttaattcatt | cattcattta | ttcattcgag | 48900 |
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| ttctttttct | ttttccatgt | gctatttgac | attttccaag | gtaccagcct | ccccttctcc | 49080 |
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| tgttttgaat | tttttgacat | acttgcccat | gaggtttttg | aaggcataga | ccatgtctta | 49260 |
| gctgaacatg | tggctctctta | gtgccataaa | gggggtttat | gggtatgacct | gtgtagtgtc | 49320 |
| acctgtgtag | tgacagcacc | actgcctctg | tttcccttcc | tcttgtgatg | gcagcagcgt | 49380 |
| ctcaagccaa | acaagaaggg | tagttagggg | gggatggaag | ctgggtagag | gtattcctct | 49440 |
| ccccatagtt | ctgtgttcac | atgtgcattg | acctcttttt | tggcagcaag | ggggccaggc | 49500 |
| caaccacccc | acagcagccg | tggtagcgga | gaagcagcag | atgctggagc | agcaccttca | 49560 |
| ggatgtccgg | aagagagtg | aggtgatgca | agttacaagc | ctcgggcagg | gagctttcat | 49620 |
| taattttttt | tttttttttt | gagacagggt | cttgcctctg | cactcaggct | gggctgcagt | 49680 |
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| tcctcccaag | tagccgggag | cacaggcatg | caccaccacg | cccagctaat | taaaaaaaaa | 49800 |
| aaattttgtg | agatgggggt | ctccctgtgt | tgtccaggct | gatcatgaac | tcctgggctc | 49860 |
| aagtgatcct | cccaactcag | cctctcaaag | tgttggcatt | acaggcgtga | gccactgcac | 49920 |
| ctggccaaca | gggagccttc | tcttggggat | actgcctgca | ggctcctgcat | gtatcttttt | 49980 |
| tgaggttttg | gcttcatattg | aattctctct | agaaacttta | tattttctgt | tcccaaggaa | 50040 |
| atctttcttt | acttctgttt | ttttgtttgc | tttttttaaa | caggatctag | aacagaaaaat | 50100 |
| gaaagtggta | gagaatctcc | aggatgactt | tgatttcaac | tataaaaccc | tcaagagtca | 50160 |
| aggaggcaag | tgaatattag | agatgttaaa | atctctagaa | agtgaagttg | tgttgtttgag | 50220 |
| ttgaaagact | cattttgtct | aactctgttt | agatcttaag | gcgggcgggg | cgcaagggag | 50280 |
| gtacgggtcc | tcaaaggagc | ctggtcatta | aggacaggag | tattccctca | gggtccaggag | 50340 |
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| tattccctca | gggtccaggag | tattccctca | gggtccaggag | tattccctca | gggtccaggag | 50700 |
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| tattccctca | gggtccaggag | tattccctca | gggtccaggag | tattccctca | gggtccaggag | 51000 |
| caaccagtca | gtgaccaggc | agaagatgca | cttcgcagac | atgcaagatc | tgaatggaaa | 51060 |
| ccagatgcgg | agagtaagg | cataggtcgg | gcagctggaa | cagatgctca | ctgcgtgga | 51120 |
| cgggatttca | gcgtcttgtg | gcagaacttg | accacttccc | ccatgtgtct | cgctcacttg | 51180 |
| ttgactaaag | aatgtggtta | gagacagctc | cttggtttct | aagaagttcc | tgctctggag | 51240 |
| | | | gaggaaatgt | tttctgactt | tgttttgggt | 51300 |

X-17294.txt

| | | | | | | |
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| tccaaccaga | gcacgtgag | tgagctggcg | gggcttttgt | cagcgatgga | gtacgtgcag | 51360 |
| aaaactctca | cggacgagga | gctggctgac | tggaagaggc | ggcaacagat | tgccctgcatt | 51420 |
| ggaggcccg | ccaacatctg | cctagatcgg | ctagaaaact | ggtaaaggat | gaaagaagct | 51480 |
| tttcttttct | ttctcgaaag | ctagattgaa | ttctgatctt | aactgcaggc | ccacagaatt | 51540 |
| ggtactatat | ctccaacgtg | gggacttttc | catattcaaa | tttagcccaa | gaattaaagt | 51600 |
| ttttacttta | tttcggccag | gcgctgtggc | tcacacctgt | aatcccagca | ctttgggaga | 51660 |
| ccaagatggg | cggatcactt | gaggtcagga | gtttgagacc | agcctggcca | acatggtgaa | 51720 |
| aacacatctc | tactaaaaac | ataaaaaaat | tagccgggcg | tggtggtgcg | cacctgtagt | 51780 |
| cccagctact | ctgggaggct | gaggcaggag | aatcacttga | acctgggata | tggaagtgtc | 51840 |
| agtgagcgga | gatcttacta | ccgcacacca | accagcctgg | gagacagagt | gagactccat | 51900 |
| ctcaaaaaaa | taaaaataaa | ataaaagttt | tacttttatt | ggagaaaact | tgttttaaaa | 51960 |
| aatgtattta | tattattata | ttttaagtat | attttactta | ataattcaat | taaggctttt | 52020 |
| ggtttaactg | tatttaacag | atagacaaac | cttttaattt | tagttatttt | agtaatctaa | 52080 |
| aatgacacat | gcccttttta | agggaaaaaa | ttcaaataca | gaaaattaat | caagagaaga | 52140 |
| aaaaattttt | aaatgaaatc | atcagcagta | ctagtagtta | aaatttagtt | gatgtcaat | 52200 |
| ctagacatct | gtcattatgt | atatacacat | tatgtatata | cacataaaga | tagaaattta | 52260 |
| tacagtttat | attaggatca | tttttttttc | tttttttggg | gtcaggggtc | cactgtgtta | 52320 |
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| aaattctctg | gctcaaggga | tcacccactc | tcggcctctc | aaaagctctg | gaattataga | 52560 |
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| tactgaaagc | agtttttaaa | gcttcctgac | cagggaaacga | agaagcttaa | gttctgggaa | 52860 |
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| ctccctctcc | tttcaacttt | tgtctttctg | gtcttttggg | ctttgttaca | ctagtataaa | 52980 |
| accatcaaa | aatgatggaa | tgatgctaac | ttctctcttt | ttttaatttt | tttgagacag | 53040 |
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X-17294.txt

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| acaagtaagt | actcctatct | tagctctgtt | tttcaaatga | ggaatagaaa | aatgagaact | 57480 |
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| gctgggggta | cagatttgat | ttgtggttgc | tattgtgaca | accagtcctt | cttttcttgg | 57660 |
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| atataatgga | atacgcaaaa | tttcacaata | ccttttcagga | tgtaaaatac | atataccctt | 58140 |
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| aacacggtga | aaccccgctc | ctactaaaaa | tacaaaaaaa | ctagctgggc | gtggtggcgg | 58320 |
| gcacctgtag | tcccagctac | tcaggaggct | gaggcaggag | aatggcatga | acctgggagg | 58380 |
| tggagtttgc | agtgaagcaa | gatcacacca | ctgcactcca | gcctgggcga | cagagactcc | 58440 |
| atctcaaaaa | aaaaaaaaaa | gaaaaagaaa | gagaaaatgt | ggctgggcgc | ggtggctcac | 58500 |
| gcctgtaatc | tcagcacttt | gggaggctga | ggtgggcaga | tcacctgagg | tcgagagttc | 58560 |
| gaaaccagcc | cgaccaacat | ggagaaacct | tgtctctact | aaaaatacaa | aattagccag | 58620 |
| gtgtgttggc | gcatgcccgt | aatcccagct | acacgggagg | ctgaggcagg | agaatcattc | 58680 |
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| tatttttagt | tgatgtaatt | atgtggaaat | ttcatgagga | tgcaatgtaa | aataatgaaa | 58860 |
| taagggagtt | gacgaagggtg | gtaggtttaa | taagtacata | tgcaatgtaa | aacataggtt | 58920 |
| cccccttcta | tggggaggga | accaaactgtg | cctgtctacg | agagggtgta | tggtgcgctg | 58980 |
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| caaaagtgat | gaacatggaa | gaatccaaca | acggcagcct | ctctgcagaa | ttcaaacact | 59340 |
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X-17294.txt

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| acctgttctt | tcagctgtag | ttattccaaa | aagtcacttc | aggccaaaagt | gacatgaaca | 59640 |
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| gggtgtaaaa | gcaacagatt | tgagttaaac | tttaaaataa | atgaccacct | tgcattagct | 59940 |
| tgcttaggaa | aagagtacat | aaaataaaat | gaacaaacaa | aaacccatct | tgttctttat | 60000 |
| cccccttatt | ttctgtcttt | cattgattca | gattattgga | ttcttattgt | caagaataaa | 60060 |
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| agattttggc | actgcactct | agcctgggca | acagagtga | actctgtctc | aaaaaaataa | 60480 |
| ataaaataaa | atgtagcagt | cctttttaaa | aatgtggaat | tttacttgac | agtagagtga | 60540 |
| agtagcctgt | atgcaatgat | atgggaaaaat | gtacatgaca | tattaagaaa | aagcaaaatg | 60600 |
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| aacaatacct | gcattgctta | gataaacaaa | tatggtaaaa | ctgtaaaaaa | acaaaacaaa | 61620 |
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| cgaactcctg | accactgtgat | ccacctgcct | cggcctccca | aaatgctggg | attgtagggtg | 62340 |
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| tcccaacttt | cttgattttt | aaattaagat | atacctagaa | aagcaggaat | cctggtcttt | 63480 |
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X-17294.txt

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| tccactatga | gtgtcactg | agctgactca | ctcacactcc | tcgcctagag | ttggcagcag | 63720 |
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| caaggctgtg | agagccccctc | tgccctcccca | gctcagtc | cactccctcc | gcagaccac | 63840 |
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X-17294.txt

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 Met Ala Gln Trp Asn Gln Leu Gln Gln Leu Asp Thr Arg Tyr Leu Glu
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| Gln | Leu | His | Gln | Leu | Tyr | Ser | Asp | Ser | Phe | Pro | Met | Glu | Leu | Arg | Gln | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| | | | 20 | | | | | 25 | | | | | 30 | | | |
| ttt | ctg | gcc | cct | tgg | att | gag | agt | caa | gat | tgg | gca | tat | gcg | gcc | agc | 384 |
| Phe | Leu | Ala | Pro | Trp | Ile | Glu | Ser | Gln | Asp | Trp | Ala | Tyr | Ala | Ala | Ser | |
| | | 35 | | | | | 40 | | | | | 45 | | | | |
| aaa | gaa | tca | cat | gcc | act | ttg | gtg | ttt | cat | aat | ctc | ctg | gga | gag | att | 432 |
| Lys | Glu | Ser | His | Ala | Thr | Leu | Val | Phe | His | Asn | Leu | Leu | Gly | Glu | Ile | |
| | 50 | | | | | 55 | | | | | 60 | | | | | |
| gac | cag | cag | tat | agc | cgc | ttc | ctg | caa | gag | tgc | aat | gtt | ctc | tat | cag | 480 |
| Asp | Gln | Gln | Tyr | Ser | Arg | Phe | Leu | Gln | Glu | Ser | Asn | Val | Leu | Tyr | Gln | |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 | |
| cac | aat | cta | cga | aga | atc | aag | cag | ttt | ctt | cag | agc | agg | tat | ctt | gag | 528 |
| His | Asn | Leu | Arg | Arg | Ile | Lys | Gln | Phe | Leu | Gln | Ser | Arg | Tyr | Leu | Glu | |
| | | | | 85 | | | | | 90 | | | | | 95 | | |
| aag | cca | atg | gag | att | gcc | cgg | att | gtg | gcc | cgg | tgc | ctg | tgg | gaa | gaa | 576 |
| Lys | Pro | Met | Glu | Ile | Ala | Arg | Ile | Val | Ala | Arg | Cys | Leu | Trp | Glu | Glu | |
| | | | 100 | | | | | 105 | | | | | 110 | | | |
| tca | cgc | ctt | cta | cag | act | gca | gcc | act | gcg | gcc | cag | caa | ggg | ggc | cag | 624 |
| Ser | Arg | Leu | Leu | Gln | Thr | Ala | Ala | Thr | Ala | Ala | Gln | Gln | Gly | Gly | Gln | |
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| gcc | aac | cac | ccc | aca | gca | gcc | gtg | gtg | acg | gag | aag | cag | cag | atg | ctg | 672 |
| Ala | Asn | His | Pro | Thr | Ala | Ala | Val | Val | Thr | Glu | Lys | Gln | Gln | Met | Leu | |
| | 130 | | | | | 135 | | | | | 140 | | | | | |
| gag | cag | cac | ctt | cag | gat | gtc | cgg | aag | aga | gtg | cag | gat | cta | gaa | cag | 720 |
| Glu | Gln | His | Leu | Gln | Asp | Val | Arg | Lys | Arg | Val | Gln | Asp | Leu | Glu | Gln | |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 | |
| aaa | atg | aaa | gtg | gta | gag | aat | ctc | cag | gat | gac | ttt | gat | ttc | aac | tat | 768 |
| Lys | Met | Lys | Val | Val | Glu | Asn | Leu | Gln | Asp | Asp | Phe | Asp | Phe | Asn | Tyr | |
| | | | | 165 | | | | | 170 | | | | | 175 | | |
| aaa | acc | ctc | aag | agt | caa | gga | gac | atg | caa | gat | ctg | aat | gga | aac | aac | 816 |
| Lys | Thr | Leu | Lys | Ser | Gln | Gly | Asp | Met | Gln | Asp | Leu | Asn | Gly | Asn | Asn | |
| | | | 180 | | | | | 185 | | | | | 190 | | | |
| cag | tca | gtg | acc | agg | cag | aag | atg | cag | cag | ctg | gaa | cag | atg | ctc | act | 864 |
| Gln | Ser | Val | Thr | Arg | Gln | Lys | Met | Gln | Gln | Leu | Glu | Gln | Met | Leu | Thr | |
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| gcg | ctg | gac | cag | atg | cgg | aga | agc | atc | gtg | agt | gag | ctg | gcg | ggg | ctt | 912 |
| Ala | Leu | Asp | Gln | Met | Arg | Arg | Ser | Ile | Val | Ser | Glu | Leu | Ala | Gly | Leu | |
| | 210 | | | | | 215 | | | | | 220 | | | | | |
| ttg | tca | gcg | atg | gag | tac | gtg | cag | aaa | act | ctc | acg | gac | gag | gag | ctg | 960 |
| Leu | Ser | Ala | Met | Glu | Tyr | Val | Gln | Lys | Thr | Leu | Thr | Asp | Glu | Glu | Leu | |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 | |
| gct | gac | tgg | aag | agg | cgg | caa | cag | att | gcc | tgc | att | gga | ggc | ccg | ccc | 1008 |
| Ala | Asp | Trp | Lys | Arg | Arg | Gln | Gln | Ile | Ala | Cys | Ile | Gly | Gly | Pro | Pro | |
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| Ser | Gln | Leu | Gln | Thr | Arg | Gln | Gln | Ile | Lys | Lys | Leu | Glu | Glu | Leu | Gln | |
| | | 275 | | | | | 280 | | | | | 285 | | | | |
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| Gln | Lys | Val | Ser | Tyr | Lys | Gly | Asp | Pro | Ile | Val | Gln | His | Arg | Pro | Met | |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|
| 290 | | | | | | 295 | | | | | 300 | | | | | |
| ctg Leu 305 | gag Glu | gag Glu | aga Arg | atc Ile | gtg Val 310 | gag Glu | ctg Leu | ttt Phe | aga Arg | aac Asn 315 | tta Leu | atg Met | aaa Lys | agt Ser | gcc Ala 320 | 1200 |
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| aga Arg | tgt Cys | ggg Gly | aat Asn 420 | ggg Gly | ggc Gly | cga Arg | gcc Ala | aat Asn 425 | tgt Cys | gat Asp | gct Ala | tcc Ser | ctg Leu 430 | att Ile | gtg Val | 1536 |
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| tcc Ser 465 | aac Asn | atc Ile | tgt Cys | cag Gln | atg Met 470 | cca Pro | aat Asn | gcc Ala | tgg Trp | gcg Ala 475 | tcc Ser | atc Ile | ctg Leu | tgg Trp | tac Tyr 480 | 1680 |
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| cca Pro | att Ile | gga Gly | acc Thr 500 | tgg Trp | gat Asp | caa Gln | gtg Val | gcc Ala 505 | gag Glu | gtc Val | ctg Leu | agc Ser | tgg Trp 510 | cag Gln | ttc Phe | 1776 |
| tcc Ser | tcc Ser | acc Thr 515 | acc Thr | aag Lys | cga Arg | gga Gly | ctg Leu 520 | agc Ser | atc Ile | gag Glu | cag Gln | ctg Leu 525 | act Thr | aca Thr | ctg Leu | 1824 |
| gca Ala | gag Glu 530 | aaa Lys | ctc Leu | ttg Leu | gga Gly | cct Pro 535 | ggt Gly | gtg Val | aat Asn | tat Tyr | tca Ser 540 | ggg Gly | tgt Cys | cag Gln | atc Ile | 1872 |
| aca Thr 545 | tgg Trp | gct Ala | aaa Lys | ttt Phe | tgc Cys 550 | aaa Lys | gaa Glu | aac Asn | atg Met | gct Ala 555 | ggc Gly | aag Lys | ggc Gly | ttc Phe | tcc Ser 560 | 1920 |
| ttc | tgg | gtc | tgg | ctg | gac | aat | atc | att | gac | ctt | gtg | aaa | aag | tac | atc | 1968 |

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| | | | | | | | | | | | | | | | | |
|-------------|------------|-------------|-------------|-------------|------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
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| | | | | 565 | | | | | 570 | | | | | 575 | | |
| ctg | gcc | ctt | tgg | aac | gaa | ggg | tac | atc | atg | ggc | ttt | atc | agt | aag | gag | 2016 |
| Leu | Ala | Leu | Trp | Asn | Glu | Gly | Tyr | Ile | Met | Gly | Phe | Ile | Ser | Lys | Glu | |
| | | | 580 | | | | | 585 | | | | | 590 | | | |
| cgg | gag | cgg | gcc | atc | ttg | agc | act | aag | cct | cca | ggc | acc | ttc | ctg | cta | 2064 |
| Arg | Glu | Arg | Ala | Ile | Leu | Ser | Thr | Lys | Pro | Pro | Gly | Thr | Phe | Leu | Leu | |
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| aga | ttc | agt | gaa | agc | agc | aaa | gaa | gga | ggc | gtc | act | ttc | act | tgg | gtg | 2112 |
| Arg | Phe | Ser | Glu | Ser | Ser | Lys | Glu | Gly | Gly | Val | Thr | Phe | Thr | Trp | Val | |
| | 610 | | | | | 615 | | | | | 620 | | | | | |
| gag | aag | gac | atc | agc | ggg | aag | acc | cag | atc | cag | tcc | gtg | gaa | cca | tac | 2160 |
| Glu | Lys | Asp | Ile | Ser | Gly | Lys | Thr | Gln | Ile | Gln | Ser | Val | Glu | Pro | Tyr | |
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| aca | aag | cag | cag | ctg | aac | aac | atg | tca | ttt | gct | gaa | atc | atc | atg | ggc | 2208 |
| Thr | Lys | Gln | Gln | Leu | Asn | Asn | Met | Ser | Phe | Ala | Glu | Ile | Ile | Met | Gly | |
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| tat | aag | atc | atg | gat | gct | acc | aat | atc | ctg | gtg | tct | cca | ctg | gtc | tat | 2256 |
| Tyr | Lys | Ile | Met | Asp | Ala | Thr | Asn | Ile | Leu | Val | Ser | Pro | Leu | Val | Tyr | |
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| ctc | tat | cct | gac | att | ccc | aag | gag | gag | gca | ttc | gga | aag | tat | tgt | cgg | 2304 |
| Leu | Tyr | Pro | Asp | Ile | Pro | Lys | Glu | Glu | Ala | Phe | Gly | Lys | Tyr | Cys | Arg | |
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| cca | gag | agc | cag | gag | cat | cct | gaa | gct | gac | cca | ggg | agc | gct | gcc | cca | 2352 |
| Pro | Glu | Ser | Gln | Glu | His | Pro | Glu | Ala | Asp | Pro | Gly | Ser | Ala | Ala | Pro | |
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| Tyr | Leu | Lys | Thr | Lys | Phe | Ile | Cys | Val | Thr | Pro | Thr | Thr | Cys | Ser | Asn | |
| | 705 | | | | 710 | | | | 715 | | | | | | 720 | |
| acc | att | gac | ctg | ccg | atg | tcc | ccc | cgc | act | tta | gat | tca | ttg | atg | cag | 2448 |
| Thr | Ile | Asp | Leu | Pro | Met | Ser | Pro | Arg | Thr | Leu | Asp | Ser | Leu | Met | Gln | |
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| Phe | Gly | Asn | Asn | Gly | Glu | Gly | Ala | Glu | Pro | Ser | Ala | Gly | Gly | Gln | Phe | |
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X-17294.txt

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| cag | tgg | aac | cag | ctg | cag | cag | ctg | gac | aca | cgc | tac | ctg | gag | cag | ctg | 226 |
| Gln | Trp | Asn | Gln | Leu | Gln | Gln | Leu | Asp | Thr | Arg | Tyr | Leu | Glu | Gln | Leu | |
| | | 5 | | | | | 10 | | | | | 15 | | | | |
| cac | cag | ctg | tac | agc | gac | acg | ttc | ccc | atg | gag | ctg | cgg | cag | ttc | ctg | 274 |
| His | Gln | Leu | Tyr | Ser | Asp | Thr | Phe | Pro | Met | Glu | Leu | Arg | Gln | Phe | Leu | |
| | 20 | | | | | 25 | | | | | 30 | | | | | |
| gca | cct | tgg | att | gag | agt | caa | gac | tgg | gca | tat | gca | gcc | agc | aaa | gag | 322 |
| Ala | Pro | Trp | Ile | Glu | Ser | Gln | Asp | Trp | Ala | Tyr | Ala | Ala | Ser | Lys | Glu | |
| | 35 | | | | 40 | | | | | 45 | | | | | 50 | |
| tca | cat | gcc | acg | ttg | gtg | ttt | cat | aat | ctc | ttg | ggg | gaa | att | gac | cag | 370 |
| Ser | His | Ala | Thr | Leu | Val | Phe | His | Asn | Leu | Leu | Gly | Glu | Ile | Asp | Gln | |
| | | | | 55 | | | | | 60 | | | | | 65 | | |
| caa | tat | agc | cga | ttc | ctg | caa | gag | tcc | aat | gtc | ctc | tat | cag | cac | aac | 418 |
| Gln | Tyr | Ser | Arg | Phe | Leu | Gln | Glu | Ser | Asn | Val | Leu | Tyr | Gln | His | Asn | |
| | | | 70 | | | | | 75 | | | | | 80 | | | |
| ctt | cga | aga | atc | aag | cag | ttt | ctg | cag | agc | agg | tat | ctt | gag | aag | cca | 466 |
| Leu | Arg | Arg | Ile | Lys | Gln | Phe | Leu | Gln | Ser | Arg | Tyr | Leu | Glu | Lys | Pro | |
| | | 85 | | | | | 90 | | | | | 95 | | | | |
| atg | gaa | att | gcc | cgg | atc | gtg | gcc | cga | tgc | ctg | tgg | gaa | gag | tct | cgc | 514 |
| Met | Glu | Ile | Ala | Arg | Ile | Val | Ala | Arg | Cys | Leu | Trp | Glu | Glu | Ser | Arg | |
| | 100 | | | | | 105 | | | | | 110 | | | | | |
| ctc | ctc | cag | acg | gca | gcc | acg | gca | gcc | cag | caa | ggg | ggc | cag | gcc | aac | 562 |
| Leu | Leu | Gln | Thr | Ala | Ala | Thr | Ala | Ala | Gln | Gln | Gly | Gly | Gln | Ala | Asn | |
| | 115 | | | | 120 | | | | | 125 | | | | | 130 | |
| cac | cca | aca | gcc | gcc | gta | gtg | aca | gag | aag | cag | cag | atg | ttg | gag | cag | 610 |
| His | Pro | Thr | Ala | Ala | Val | Val | Thr | Glu | Lys | Gln | Gln | Met | Leu | Glu | Gln | |
| | | | | 135 | | | | | 140 | | | | | 145 | | |
| cat | ctt | cag | gat | gtc | cgg | aag | cga | gtg | cag | gat | cta | gaa | cag | aaa | atg | 658 |
| His | Leu | Gln | Asp | Val | Arg | Lys | Arg | Val | Gln | Asp | Leu | Glu | Gln | Lys | Met | |
| | | | 150 | | | | | 155 | | | | | 160 | | | |
| aag | gtg | gtg | gag | aac | ctc | cag | gac | gac | ttt | gat | ttc | aac | tac | aaa | acc | 706 |
| Lys | Val | Val | Glu | Asn | Leu | Gln | Asp | Asp | Phe | Asp | Phe | Asn | Tyr | Lys | Thr | |
| | | 165 | | | | | 170 | | | | | 175 | | | | |
| ctc | aag | agc | caa | gga | gac | atg | cag | gat | ctg | aat | gga | aac | aac | cag | tct | 754 |
| Leu | Lys | Ser | Gln | Gly | Asp | Met | Gln | Asp | Leu | Asn | Gly | Asn | Asn | Gln | Ser | |
| | 180 | | | | 185 | | | | | | 190 | | | | | |
| gtg | acc | aga | cag | aag | atg | cag | cag | ctg | gaa | cag | atg | ctc | aca | gcc | ctg | 802 |
| Val | Thr | Arg | Gln | Lys | Met | Gln | Gln | Leu | Glu | Gln | Met | Leu | Thr | Ala | Leu | |
| | 195 | | | | 200 | | | | | 205 | | | | | 210 | |
| gac | cag | atg | cgg | aga | agc | att | gtg | agt | gag | ctg | gcg | ggg | ctc | ttg | tca | 850 |
| Asp | Gln | Met | Arg | Arg | Ser | Ile | Val | Ser | Glu | Leu | Ala | Gly | Leu | Leu | Ser | |
| | | | | 215 | | | | | 220 | | | | | 225 | | |
| gca | atg | gag | tac | gtg | cag | aag | aca | ctg | act | gat | gaa | gag | ctg | gct | gac | 898 |
| Ala | Met | Glu | Tyr | Val | Gln | Lys | Thr | Leu | Thr | Asp | Glu | Glu | Leu | Ala | Asp | |
| | | | 230 | | | | | 235 | | | | | 240 | | | |
| tgg | aag | agg | cgg | cag | cag | atc | gcg | tgc | atc | gga | ggc | cct | ccc | aac | atc | 946 |
| Trp | Lys | Arg | Arg | Gln | Gln | Ile | Ala | Cys | Ile | Gly | Gly | Pro | Pro | Asn | Ile | |
| | | 245 | | | | | 250 | | | | | 255 | | | | |
| tgc | ctg | gac | cgt | ctg | gaa | aac | tgg | ata | act | tca | tta | gca | gaa | tct | caa | 994 |
| Cys | Leu | Asp | Arg | Leu | Glu | Asn | Trp | Ile | Thr | Ser | Leu | Ala | Glu | Ser | Gln | |
| | 260 | | | | | 265 | | | | | 270 | | | | | |

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| | | | | | | | | | | | | | | | | |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|
| ctt Leu 275 | cag Gln | acc Thr | cgc Arg | caa Gln 280 | caa Gln 280 | att Ile | aag Lys | aaa Lys | ctg Leu 285 | gag Glu 285 | gag Glu | ctg Leu | cag Gln | cag Gln | aaa Lys 290 | 1042 |
| gtg Val | tcc Ser | tac Tyr | aag Lys 295 | ggc Gly 295 | gac Asp | cct Pro | atc Ile | gtg Val | cag Gln 300 | cac His | cgg Arg | ccc Pro | atg Met | ctg Leu 305 | gag Glu | 1090 |
| gag Glu | agg Arg | atc Ile | gtg Val 310 | gag Glu | ctg Leu | ttc Phe | aga Arg | aac Asn 315 | tta Leu | atg Met | aag Lys | agt Ser | gcc Ala 320 | ttc Phe | gtg Val | 1138 |
| gtg Val | gag Glu | cgg Arg 325 | cag Gln | ccc Pro | tgc Cys | atg Met | ccc Pro 330 | atg Met | cac His | ccg Pro | gac Asp | cgg Arg 335 | ccc Pro | tta Leu | gtc Val | 1186 |
| atc Ile | aag Lys 340 | act Thr | ggc Gly | gtc Val | cag Gln | ttt Phe 345 | acc Thr | acg Thr | aaa Lys | gtc Val | agg Arg 350 | ttg Leu | ctg Leu | gtc Val | aaa Lys | 1234 |
| ttt Phe 355 | cct Pro | gag Glu | ttg Leu | aat Asn | tat Tyr 360 | cag Gln | ctt Leu | aaa Lys | att Ile | aaa Lys 365 | gtg Val | tgc Cys | att Ile | gat Asp | aaa Lys 370 | 1282 |
| gac Asp | tct Ser | ggg Gly | gat Asp | gtt Val 375 | gct Ala | gcc Ala | ctc Leu | aga Arg | ggg Gly 380 | tct Ser | cgg Arg | aaa Lys | ttt Phe | aac Asn 385 | att Ile | 1330 |
| ctg Leu | ggc Gly | acg Thr | aac Asn 390 | aca Thr | aaa Lys | gtg Val | atg Met | aac Asn 395 | atg Met | gag Glu | gag Glu | tct Ser | aac Asn 400 | aac Asn | ggc Gly | 1378 |
| agc Ser | ctg Leu | tct Ser 405 | gca Ala | gag Glu | ttc Phe | aag Lys | cac His 410 | ctg Leu | acc Thr | ctt Leu | agg Arg | gag Glu 415 | cag Gln | aga Arg | tgt Cys | 1426 |
| ggg Gly 420 | aat Asn | gga Gly | ggc Gly | cgt Arg | gcc Ala | aat Asn 425 | tgt Cys | gat Asp | gcc Ala | tcc Ser | ttg Leu 430 | atc Ile | gtg Val | act Thr | gag Glu | 1474 |
| gag Glu 435 | ctg Leu | cac His | ctg Leu | atc Ile | acc Thr 440 | ttc Phe | gag Glu | act Thr | gag Glu | gtg Val 445 | tac Tyr | cac His | caa Gln | ggc Gly | ctc Leu 450 | 1522 |
| aag Lys | att Ile | gac Asp | cta Leu | gag Glu 455 | acc Thr | cac His | tcc Ser | ttg Leu | cca Pro 460 | gtt Val | gtg Val | gtg Val | atc Ile | tcc Ser 465 | aac Asn | 1570 |
| atc Ile | tgt Cys | cag Gln | atg Met 470 | cca Pro | aat Asn | gct Ala | tgg Trp | gca Ala 475 | tca Ser | atc Ile | ctg Leu | tgg Trp | tat Tyr 480 | aac Asn | atg Met | 1618 |
| ctg Leu | acc Thr | aat Asn 485 | aac Asn | ccc Pro | aag Lys | aac Asn | gtg Val 490 | aac Asn | ttc Phe | ttc Phe | act Thr | aag Lys 495 | ccg Pro | cca Pro | att Ile | 1666 |
| gga Gly 500 | acc Thr | tgg Trp | gac Asp | caa Gln | gtg Val | gcc Ala 505 | gag Glu | gtg Val | ctc Leu | agc Ser | tgg Trp 510 | cag Gln | ttc Phe | tcg Ser | tcc Ser | 1714 |
| acc Thr 515 | acc Thr | aag Lys | cga Arg | ggg Gly | ctg Leu 520 | agc Ser | atc Ile | gag Glu | cag Gln | ctg Leu 525 | aca Thr | acg Thr | ctg Leu | gct Ala | gag Glu 530 | 1762 |
| aag Lys | ctc Leu | cta Leu | ggg Gly | cct Pro 535 | ggc Gly | gtg Val | aac Asn | tac Tyr | tca Ser 540 | ggg Gly | tgt Cys | cag Gln | atc Ile | aca Thr 545 | tgg Trp | 1810 |

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| | | | | | | | | | | | | | | | | |
|-----|------------|------------|------------|------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| gct | aaa | ttc | tgc | aaa | gaa | aac | atg | gct | ggc | aag | ggc | ttc | tcc | ttc | tgg | 1858 |
| Ala | Lys | Phe | Cys | Lys | Glu | Asn | Met | Ala | Gly | Lys | Gly | Phe | Ser | Phe | Trp | |
| | | | 550 | | | | | 555 | | | | | 560 | | | |
| gtc | tgg | cta | gac | aat | atc | atc | gac | ctt | gtg | aaa | aag | tat | atc | ttg | gcc | 1906 |
| Val | Trp | Leu | Asp | Asn | Ile | Ile | Asp | Leu | Val | Lys | Lys | Tyr | Ile | Leu | Ala | |
| | | 565 | | | | | 570 | | | | | 575 | | | | |
| ctt | tgg | aat | gaa | ggg | tac | atc | atg | ggt | ttc | atc | agc | aag | gag | cgg | gag | 1954 |
| Leu | Trp | Asn | Glu | Gly | Tyr | Ile | Met | Gly | Phe | Ile | Ser | Lys | Glu | Arg | Glu | |
| | 580 | | | | | 585 | | | | | 590 | | | | | |
| cgg | gcc | atc | cta | agc | aca | aag | ccc | ccg | ggc | acc | ttc | cta | ctg | cgc | ttc | 2002 |
| Arg | Ala | Ile | Leu | Ser | Thr | Lys | Pro | Pro | Gly | Thr | Phe | Leu | Leu | Arg | Phe | |
| | 595 | | | | 600 | | | | 605 | | | | | | 610 | |
| agc | gag | agc | agc | aaa | gaa | gga | ggg | gtc | act | ttc | act | tgg | gtg | gaa | aag | 2050 |
| Ser | Glu | Ser | Ser | Lys | Glu | Gly | Gly | Val | Thr | Phe | Thr | Trp | Val | Glu | Lys | |
| | | | | 615 | | | | 620 | | | | | | 625 | | |
| gac | atc | agt | ggc | aag | acc | cag | atc | cag | tct | gta | gag | cca | tac | acc | aag | 2098 |
| Asp | Ile | Ser | Gly | Lys | Thr | Gln | Ile | Gln | Ser | Val | Glu | Pro | Tyr | Thr | Lys | |
| | | | 630 | | | | | 635 | | | | | 640 | | | |
| cag | cag | ctg | aac | aac | atg | tca | ttt | gct | gaa | atc | atc | atg | ggc | tat | aag | 2146 |
| Gln | Gln | Leu | Asn | Asn | Met | Ser | Phe | Ala | Glu | Ile | Ile | Met | Gly | Tyr | Lys | |
| | | 645 | | | | | 650 | | | | | 655 | | | | |
| atc | atg | gat | gcg | acc | aac | atc | ctg | gtg | tct | cca | ctt | gtc | tac | ctc | tac | 2194 |
| Ile | Met | Asp | Ala | Thr | Asn | Ile | Leu | Val | Ser | Pro | Leu | Val | Tyr | Leu | Tyr | |
| | 660 | | | | | 665 | | | | | 670 | | | | | |
| ccc | gac | att | ccc | aag | gag | gag | gca | ttt | gga | aag | tac | tgt | agg | ccc | gag | 2242 |
| Pro | Asp | Ile | Pro | Lys | Glu | Glu | Ala | Phe | Gly | Lys | Tyr | Cys | Arg | Pro | Glu | |
| | 675 | | | | 680 | | | | 685 | | | | | | 690 | |
| agc | cag | gag | cac | ccc | gaa | gcc | gac | cca | ggt | agt | gct | gcc | ccg | tac | ctg | 2290 |
| Ser | Gln | Glu | His | Pro | Glu | Ala | Asp | Pro | Gly | Ser | Ala | Ala | Pro | Tyr | Leu | |
| | | | | 695 | | | | 700 | | | | | | 705 | | |
| aag | acc | aag | ttc | atc | tgt | gtg | aca | cca | ttc | att | gat | gca | gtt | tgg | aaa | 2338 |
| Lys | Thr | Lys | Phe | Ile | Cys | Val | Thr | Pro | Phe | Ile | Asp | Ala | Val | Trp | Lys | |
| | | | 710 | | | | | 715 | | | | | 720 | | | |
| taa | cggtgaaggt | gctgagccct | cagcaggagg | gcagtttgag | tcgctcacgt | | | | | | | | | | | 2391 |
| * | | | | | | | | | | | | | | | | |

| | | | | | | |
|-------------|------------|-------------|------------|-------------|------------|------|
| ttgacatgga | tctgacctcg | gagtgtgcta | cctcccccat | gtgaggagct | gaaaccagaa | 2451 |
| gctgcagaga | cgtgacttga | gacacctgcc | ccgtgctcca | cccctaagca | gccgaacccc | 2511 |
| atatcgtctg | aaactcctaa | ctttgtggtt | ccagattttt | ttttttaatt | tcctacttct | 2571 |
| gctatctttg | ggcaatctgg | gcacttttta | aaagagagaa | atgagtgagt | gtgggtgata | 2631 |
| aactgttatg | taaagaggag | agcacctctg | agtctgggga | tggggctgag | agcagaaggg | 2691 |
| aggcaaaggg | gaacacctcc | tgtcctgccc | gcctgccctc | ctttttcagc | agctcggggg | 2751 |
| ttggttggtta | gacaagtgcc | tcctgggtgcc | catggctacc | tgttgccccca | ctctgtgagc | 2811 |
| tgatacccca | ttctgggaac | tcctggctct | gcactttcaa | ccttgctaata | atccacatag | 2871 |
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